

Title (en)

Variable capacity vane compressor.

Title (de)

Flügelzellenverdichter mit veränderlicher Durchflussmenge.

Title (fr)

Compresseur à palettes à capacité variable.

Publication

EP 0252658 A2 19880113 (EN)

Application

EP 87305702 A 19870626

Priority

- JP 14236286 U 19860917
- JP 15931086 A 19860707
- JP 19558386 U 19861219
- JP 24602786 A 19861016

Abstract (en)

A variable capacity vane compressor comprising a control element (24) having at least one pressure-receiving protuberance (26) dividing a space into a first and a second pressure chamber, wherein the control element angularly moves in response to a differential pressure between the first and second pressure chambers, to vary an opening angle of a second portion of at least one inlet port. The control element has mounted thereon a sealing member (31) for sealing between the first and second pressure chambers and between a low pressure chamber and a vane back pressure zone. The sealing member comprises a first sealing portion (31a) for sealing between a peripheral wall surface of a central bore in the control element and an inner peripheral side wall surface of an annular recess in a side block, a second sealing portion (31b) for sealing between an outer peripheral surface of the control element and an outer peripheral side wall surface of the annular recess, a third sealing portion (31c) for sealing between an outer peripheral edge of the pressure-receiving protuberance and the wall surface of the space, and a fourth sealing portion (31d) for sealing between an axial end face of the control element and a bottom wall surface of the annular recess.

IPC 1-7

F04C 29/10

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

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